***COMPLETE IN NOTEBOOK!   
COPY ALL FIGURES!***  
**READ ALL DIRECTIONS! Failure to show** ALL WORK **and follow** all directions COMPLETELY **will result in LaSalle.**

CW38/HW38: A&P of Circles

**Geometry**

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| 1) Find the area of the circle. Use your calculator’s value of pi. Round your answer to the nearest tenth. | 2) Finding the area of the circle. Use your calculator’s value of pi. Round your answer to the nearest tenth. |
| 3)If the area of a circle is 36 km2, what is the radius and diameter? | 4) How many centimeters long is the radius and diameter of a circle whose area is 81 cm2 ? |
| 5) How many centimeters long is the radius and diameter of a circle whose area is 121π cm2 ? | 6) How many centimeters long is the radius and diameter of a circle whose area is 144 π cm2 ? |
| 7) Find the area: | 8) Find the area of the figure below, found your answer to the nearest hundredth. |
| 9) What is the diameter of a circle that has an area of 256π square units? | 10) A circle has an area of 30 square inches. If you double the radius, what will its new area be? |
| 11) You are filling a circular pig pen with dirt. The pen has a radius of 15 feet. The dirt costs $15.00 per square foot. How much money will it cost to fill the pig pen? | 12) Find the area of the shaded figures below. |

***Directions:*** Write your answer TWO ways: 1) With π and 2) Rounded to the nearest tenth.

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| Find the circumference of the circle. | An orange sliced in half has a diameter of 5 inches. Find the circumference. |
| 1) A quarter has a radius of 12.1 mm. Find the circumference of the quarter. | 2) Mr. Small is ordering circular cloth patches for the soccer team’s uniform. If the diameter is 9 cm, find the approximate circumference of the patch. |
| A circular dish of pasta has a circumference of 84.8 cm. What is the diameter of the wheel? What is the radius? | 3) A bicycle tire has a circumference of 56 inches. What is the diameter of the wheel? What is the radius? |
| 4) Find the circumference of the circle rounded to the nearest tenth. | 5) If the official basketball of both men's N.B.A. and N.C.A.A. leagues has a circumference of 30 cm, what is the diameter of the basketball? What is the radius? |
| 8)a) You lay 10 inch long bricks end-to-end around the border of a circular garden. How many bricks do you need for each garden if it has a diameter of 26 feet? | b) The bricks are sold in bundles of 100. How many bundles should you buy? |